Next GARS meeting is January 11, 20100

Saint Marguerite D'Youville Church 85 Gloster Road Lawrenceville, GA 30044



The official newsletter of the Gwinnett Amateur Radio Society Jan 2011 http://www.gars.org/ Volume 20, Issue 1



A note from the President

2010 was an outstanding year for the Gwinnett Amateur Radio Society and I am very excited about 2011. What 2011?!? Where does the time go? Hmm, well perhaps we can discuss the finer points of disappearing time, um, later. I am quite hopeful this year will eclipse last year in terms of learning and fun.



Shortly after this issue "goes to press," GARS will be sponsoring its annual, unique event known as Tech-Fest. It is very exciting that this year we will be doing a kit building session during TechFest. There is more about TechFest elsewhere in this issue, so I will not go on and on about it. I look forward to seeing everyone there and and having fun digging through the tailgating boneyard!

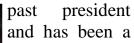
Speaking of fun, I think we had a fabulous holiday party last month. A lot of people worked very hard to make it entertaining and tasty. I hope everyone en-

joyed it as much as I did. People who did not attend missed out on the acts we booked. The chihuahua who danced to Lady Gaga and the monkey who clanged Jingle Bells on the champagne glasses were probably my two favorites. Did that really happen or was that in my imagination? If you were there, you know.

Two things that we all agree did happen at the Holiday party were the awarding of the 2010 Ham Of The Year, and a very rare award of a GARS lifetime membership. There are many, many members of GARS who could or even should be considered for Ham Of The Year, but we can pick only one. It is not one or two, but instead a very large group of talented and dedicated people who are responsible for putting and keeping GARS where it is. But when we scrutinize who really exemplified what it means to be Ham Of The Year in 2010, it will surely be no surprise that Norm Schklar WA4ZXV was this year's recipient. Norm is not only a past (continued next page)

president, but he is also a dedicated member who is always there when we need him to pitch in, and he always volunteers for more tasks as we continue to grow the club activities. Please give Norm a congratulations on his award for 2010 the next time you see him He has worked selflessly and tirelessly to earn it.

I would also like to talk about an extremely rare and significant event happened at the holiday party's meeting. A special committee, chaired by John Davis WB4QDX, presented a nomination during the business part of the meeting. I am elated to say the membership accepted, seconded, and ratified the award of a lifetime membership to David Adcock KA4KKF. David is a



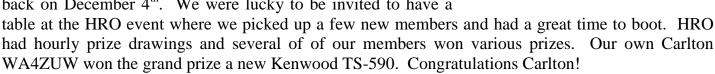
long time member of GARS. He has been Ham Of The Year several times before, and year after year he continues to show his dedication. He has earned our gratitude a thousand times over, and continues to show us so much devotion. Lifetime memberships are rarely granted and to the best I can ascertain, David is the only living GARS lifetime member. This is our highest award, and I think all of us agree that nobody is more deserving of this honor.

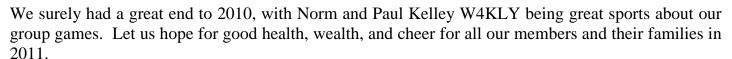


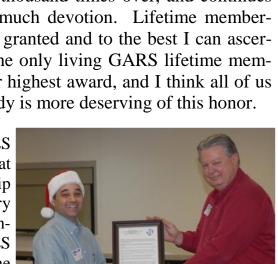
Gwinnett ARES

presented GARS with a resolution in appreciation for what GARS does to support ARES, and for our close relationship with them. Will Perkins W1ZRV stood up and said some very nice words as well. Will commented that nowhere in the country has he seen two groups such as GARS and Gwinnett ARES who work together like our two groups do. A digital copy of the resolution can be seen elsewhere in this issue of the Garzette.

GARS also had a great showing at the HRO grand re-opening back on December 4th. We were lucky to be invited to have a







73, Kyle W4KDA



At the GARS Holiday party we played the following game. We have included it here for those of you who were unable to attend the party (or for those who want to enjoy it again). - Kyle W4KDA

....

How Well Do You Know Your GARS Officers, Directors, and Committee Chairmen?

- Is restoring an old Hallicrafters rig. Kyle W4KDA
- Used to work as a janitor for the United States Postal Service. Kyle W4KDA
- Has watched many rocket launches from their front yard, and watched the first 3 space shuttle launches from the beach, on top of their roof, and their school, respectively. Kyle W4KDA
- Built his own house subcontracting or doing everything himself. John WB4QDX
- Got stuck in an elevator in grain silo once, in Lawton, OK. John WB4QDX
- Has been inside the arctic circle, under water. David KA4KKF
- "I once passed up a chance to smoke dope with John Denver after a concert.....really." Sandy KJ4DRO
- "I once had a job where I had to evict people. Not just file the paperwork and go to court but actually put their stuff on the street while the cops stood guard." Sandy KJ4DRO
- Was a concert pianist at age 12 and a radio Announcer at age 14. Ray N4GYN
- Directed a teen musical group who performed on the steps of the Lincoln Memorial on July 4, 1976 (Bicentennial). - Ray N4GYN
- Marched in JFK's Inaugural Parade. Norm WA4ZXV
- Was shocked by a giant capacitor so badly that it made their legs act like a frog and sent them across the room. - Norm WA4ZXV
- Drilled holes into the gas tank of a new Cadillac when installing a remote mobile radio. Norm WA4ZXV
- Once worked at two radio stations at the same time spinning LP records. Bill WB4WTN
- When this person finishes tasks around the house with the following guarantee: "Another job well done by your Western Electric Installer in action guaranteed not to rip, tear, ravel, or unwind. If it jumps bring it back." (None of those claims are possible.) Ralph KJ4CNC
- First paying job was as a Lab Technician in a private blood bank. Ralph KJ4CNC
- "My first job (after college) was as a plant manager of an ice cream plant. It didn't last long, I was eating too much product." Mike ND4V
- While in High School, they operated six meters with an Olson Six (10 w am) from LaGrange (deep fringe for WSB-TV channel 2). The neighbors would call and ask why they Couldn't hear the other guy. - Mike ND4V
- "Evolution, not revolution" Dave W4DTR
- I worked for over 8 years at CARE, one of the world's largest international development and disaster relief organizations. Dave W4DTR
- Julia Roberts attended this person's High School prom. Not with him though. Hal W4IGE
- Met his wife while they were on TV. Hal W4IGE

At the GARS Holiday party we played a group game called a Mad Lib. I went around to each table and asked for specific types of words from each group. The story we came up with as a group was quite comical and is below.

NOTE: To the best of my knowledge Norm does NOT call his wife "old ball and chain," and neither do 1! It just happens to be the way the mad lib came out.

Thanks to Paul and Norm for being the subjects of our mad lib. It was a great deal of fun. I had to keep pausing while reading for the crowd's (and my own) laughter. *Kyle* W4KDA

_....

GARS 2010 Holiday Party Fill In The Blanks Game

One morning a <u>brilliant</u> radio operator named <u>Norm Schklar</u> got up and wanted to play radio. He was going to work on his <u>40m dipole</u> antenna but there was a <u>mesocyclone</u> outside. So he decided to do an nice indoor project. He thought about it for a while and remembered he had *always* wanted to homebrew a <u>microphone</u> to work on <u>CW</u> for the <u>20m</u> band. He was worried about the daunting task at first, but then decided that "if anybody could do it he could." And ever since <u>Paul Kelley</u> showed off his homebrew <u>power supply</u>, he had been wanting to build something to show off to the club.

Norm went to the <u>family room</u> where he keeps all of his spare parts or "garbage" as his <u>old ball and chain</u> calls it. He opened up his <u>attic</u> where he keeps his goodies and pulled out some <u>capacitors</u>, <u>diodes</u>, and <u>tubes</u>. "This should do it" he declared to himself and decided to <u>take a hot bath</u> before he began the project. <u>Norm</u> always likes to <u>take a hot bath</u> before a big project.

Once he was ready, he <u>grumpily</u> sketched out a schematic on the back of a <u>TV</u> and got very excited about the project. "This will really show <u>Paul</u> who the best homebrewer is," he thought to himself. He warmed up his soldering iron, came up with a catchy name, and began to create his project that he now called "The <u>Manhatten</u>." He soldered, <u>bent, beat, welded, and cussed</u> as his creation took shape.

At last he looked at this <u>explosive</u> thing he had created with great pride. He wondered if he should test it, but decided it was perfect and just connected it right to his <u>Kenwood TS-570</u> to use it. He turned on the power; it lit up and hummed delightfully. He was excited as he keyed the <u>TS-570</u>. Suddenly, the lights in the room dimmed and one of the <u>capacitors</u> exploded, literally putting a hole in the <u>fireplace</u>. His pet <u>iguana</u> named <u>Doowally</u> ran out of the room as if his <u>tail</u> was on fire. <u>Norm</u> turned off the power quickly. As a paper capacitor smoldered, and after a moment of self doubt, a smile came to his face. "Perhaps," he thought, "I should just build an Elecraft K2 instead."

RESOLUTION BY THE GWINNETT AMATEUR RADIO EMERGENCY SERVICE IN SUPPORT OF THE GWINNETT AMATEUR RADIO SOCIETY



WHEREAS, the Gwinnett Amateur Radio Emergency Service, also known as Gwinnett ARES, is an organization of Amateur Radio licensees who voluntarily register their qualifications and equipment for communications duty in the public service when disaster strikes to the citizens of Gwinnett County and surrounding areas; and

WHEREAS, the Gwinnett Amateur Radio Society, also known as GARS, is an amateur radio club serving Gwinnett County, and is a Special Service club affiliated with the Amateur Radio Relay League; and

WHEREAS, many members of Gwinnett ARES and GARS are active members of both organizations; and

WHEREAS, GARS provides a network of repeaters for Amateur Radio communications within Gwinnett County for ARES unconditional use for training, nets and emergency communications; and

WHEREAS, GARS provides sites for the installation and operation of some of Gwinnett ARES' digital communications equipment; and

WHEREAS, Gwinnett ARES and GARS cooperate in support of many Public Service events and activities throughout the year in service to Gwinnett County and surrounding areas; and

WHEREAS, there exists and unmatched spirit of cooperation and support between the two organizations that has become a positive example and is held up as a model for other organizations to follow;

THEREFORE BE IT RESOLVED, that the Gwinnett Amateur Radio Emergency Service extends its deepest appreciation and gratitude to the Gwinnett Amateur Radio Society for its continuing support of the ARES mission of providing emergency communications services to the citizens of Gwinnett County and pledges its continuing support to GARS for the common goal of the advancement of Amateur Radio.

On behalf of the Board of Directors of the Gwinnett Amateur Radio Emergency Service

Emergency Coordinator

TechFest 2011

January 8, 2011, Lawrenceville, GA sponsored by the Gwinnett Amateur Radio Society

Techfest is a Family Event!

We'll have a **Youth Lounge** to introduce the very young to amateur radio, and a **Youth Building Project** put on by the NFARL (NFARL needs reservations for the 8-18 year old building project)

TIME: We start late and don't keep you long. 10:00 till 2:00 for most of us.

PLACE: St. Marguerites Church

85 Gloster Road Lawsrenceville, GA Info: www.GARS.org

Coffee will be served <u>all morning</u> as well as a <u>free burger</u>, <u>dog and chili lunch</u>. There will be several tables setup for sharing tall tales while having a cup of coffee.

What is Military Affiliated Radio (MARS)? We'll have folks to explain.

How did he get all those antennas in the attic? Ralph will show you.

Want to make that smart phone smarter? See ham applications demonstrated on a smart phone.

This is a great time to introduce friends and relatives to our hobby. Several local clubs are participating by demonstrating a mode, technique or tools used in amateur radio.

We'll have a session on DX101 (10:30). Learn how to work those distant limited access entities. Ask questions of the folks that actually go to those distant places just to allow us to make a new country contact.

Heard about Linux and Ham Radio? You'll have another chance to hear about and ask questions. Last year they told us about it. Now we've got questions!

Been thinking about one of those antenna launchers, spud guns and a wire antenna? We'll have a display of launchers, sling shots and other antenna hanging tools.

You are invited to bring yours along.

Is D-STAR still a mystery at your shack? Here's another chance to find out more.

If Ed can't answer your questions, you probably don't need the answer.

Put him to the test.

What's WebSDR? Come and find out.

What do those VHF contesters do? Maybe sample WSJT. Nothing to it just ask at the VHF table.

Ready to move up a class? We'll have a VE session starting about 9:00. They'll be done by about 10:30.

Got something you need to move to someone else's shack? We'll have a tailgate in the parking lot starting at 8:00.

Dress warm!

We'll have Gene, W4AYK, our section manager at the ARRL table. Find out what's new with the ARRL or Georgia Section.

Pictures of Last Year's TECHFEST





GQP 50th Anniversary APRIL 9 & 10 2011

Georgia QSO Party

Annually, the second **full** weekend of April
There are two operating periods:
1800Z Saturday until 0359Z Sunday
1400Z to 2359Z on Sunday



Morse Code in BSA News!

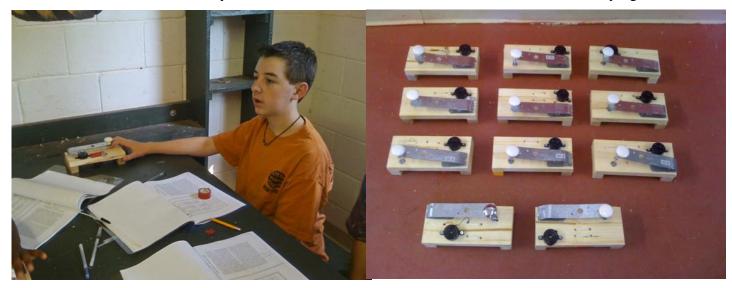
Boy Scouts of America marked their 100th Anniversary in 2010

with many celebrations that included the temporary return of four long retired Merit Badges. Scouts again had the fun and challenge of old time skills and fun in Carpentry, Tracking, Pathfinding, and Signaling. In October GARS members conducted a workshop in the Signaling Merit Badge that included eleven Scouts in Troop 499 in Grayson.

Scouts built a simple CW keyer and then used their homebrew device to learn and practice the Code. They got more exposure to Morse with Wig Wag flags.



Semaphore signaling provided a different challenge. Several Scout Dads helped and participated. There was some modern work too when they each built and soldered a blinker device to send the Code by light.



Special thanks go to Ken Davis, Advancement Chairman of Troop 499 and to both Catherine Duggan who crafted a dozen sets of Semaphore flags and to Mike Duggan who supplied the materials and supervised construction of the blinker. Thanks also to Earl Whatley AF4FG and Steve Back WB2OGY for their technical support.





BSA Venture Crew 73 Wants You

If you are between 14 and 21 years old, enjoy outdoor activities, and have an interest in radio technology, Venture Crew 73 is for you.

- Venture Crews are part of the Boy Scouts of America.
- Venture crew 73 is chartered by the Gwinnett Amateur Radio Society.
 - Venture crew 73 is coed.
- Meetings are on the second Tuesday of the month, 7:00 p.m., at the St. Marguerite D'Youville Catholic Church, 85 Gloster Rd. NW, Lawrenceville, GA 30044.
- Crew 73 is a youth-run organization, which means that our Crew President and other youth plan the Crew's outings and activities each month.

We enjoy:

- o Camping
- o Hiking
- o Horse Back Riding
- o Shooting Sports
- Crew activities usually mix high adventure and the use of amateur radio.
- For more information, attend our next meeting or contact:

Steve Back, WB2OGY Venture Crew 73 Committee Chairman Phone: 770-712-9069

Email: committeechair@venturecrew73.org

Jeff Lee, AF4JL Venture Crew 73 Advisor Phone: 678-475-3165

Email: advisor@venturecrew73.org

GARS officers and committee chairs

Kyle Albritton, W4KDA President

Earl Whatley, AF4FG Vice President

Hal Collier, W4IGE Secretary

Ralph Pickwick, KJ4CNC Treasurer, Apparel Manager

Sandy Jackson, KJ4DRO Program Manager

Dave Bruse, W4DTR Membership Chairman VE Team

David Adcock, KA4KKF Webmaster, Field Day Chairman

Dorothy Jubon, N2DLJ Public Information Officer

Norm Sckhlar, WA4ZXV TechFest Chairman

Ray Bailey, N4GYN GARzette Editor

Bill Cherepy, WB4WTN W4GR Trustee

Eddie Foust, WD4JEM Repeater Chairman

Mike Weathers, ND4V WAS-Checker

Joel Barrett, W4JOL Net Manager

Mike Swiderski, K4HBI Technical Advisor

GARS communication system

70 Cm Repeater 444.525(+) MHz 82.5 PL Tone

APRS 144.390 -- 1200 Baud W4GR

6 Meter Repeater 53.110 (-1 MHz) 82.5 PL Tone

D-Star WD4STR 145.060 + (1.4 MHz) 440.550 + (5 MHz)

2 Meter Repeater 147.075(+) MHz 82.5 PL Tone

Main Repeater Site Oak Street, Lawrenceville

Backup Repeater Site Lanier Mountain, Snellville

The following members are celebrating birthdays in January: HADDY BIRTHDAY!! From All of Us at GARS

Clarence Upthegrove AJ4S

Grant Porter KG4SDR

Michael Stebnicki KJ4PQZ

PHIL HIX KJ4ZDO

Dorothy Jubon N2DLJ

Randy Collins N4COR

Hal Collier W4IGE

Terry Cantrell W4WTC

Edward Juzumas WA2BIG

Curtis H. Young WA4HCE

David Kuechenmuster WB8LRL

Leo Bosarge WD4OPS

GARS Recurring Calendar

- Monthly club meeting is the <u>2nd Tuesday</u> of the month at 7 p.m. Check the <u>website</u> http://www.gars.net for location.
- Every Monday at 8 p.m.: GARS Want, Swap, Sell, and Information Net on the GARS 2-meter repeater.
- Every Wednesday at 9 p.m.: GARS 6-meter net on the GARS 6-meter repeater.
- Every Saturday at 7:30 a.m.: GARS
 Weekly Family Breakfast, Golden Corral Restaurant, Riverside Drive, Lawrenceville.

Meeting Minutes GARS General Meeting December 10, 2010

- 1. Dinner started at 7PM
- 2. Games started at 7:30PM
- 3. Business:
- 4. Treasurer's Report Ralph Pickwick, KJ4CNC
- 5. Committee Reports:

Membership – Dave Bruse, W4DTR, reported the following:

Yoshiaki Ogane, ND1Y, voted in as new member

Alvin Hartley, KJ4QIA, voted in as new member

David Schacher, KJ4BWO, voted in as new member

Phil Hix, KJ4ZDO, voted in as new member

Fred Pescitelli, KJ4ZDC, voted in as new member

No VE session in December

VE session at Techfest January 8, 2011 starting at 9am.

- 5. Norm Schklar, WA4ZXV, announced Techfest 2011 will be on January 8, 2011 from 10am to 2 pm. New demonstrations are needed. Demonstrations will include Packet, FLDIGI, the Gwinnett ARES Trailer, and many more. There will be a "BoneYard" from 8am to 10:30am.
- 6. A lifetime GARS membership was awarded to David Adcock, KA4KKF. The vote was unanimous!
- 7. Norm Scklar, WA4ZXV, was awarded the <u>Ham Of The Year</u> award from GARS!
- 8. Prize drawing.

The meeting was adjourned at 9:00 pm.

Hal Collier, W4IGE, Secretary

			January			
Sun	Mon	Tue	Wed	Thu	Fri	Sa
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Metro Atlanta VE Exam Schedule

GARS publishes Metro Atlanta VE exam schedules as a service and is not responsible for errors or changes. Call and confirm schedules before going. All sessions are walk-in. Take copies of current license and certificate of completed elements with you to all sessions. Find additional sessions online at www.arrl-ga.org.

First Saturday, Even Months

9 a.m. EOC Building Butch Nitz, AF4FS (770) 968-8780

First Wednesday

7 p.m. ARRL/VEC Roberts School 4681 School Street, Acworth Jodi Escher AG4BK (770) 387-1591

Second Saturday, Odd Months

ARRL VEC 8:30 a.m. Stone Mountain Methodist Church 5312 West Mountain St. Stone Mountain Bob Varone, W4ETN (770) 978-3179

Third Saturday

CA VEC

9 a.m.

Marietta First United Meth. Church Room 305, 56 Whitlock Ave. Marietta David Still, WB4RRD (707) 973-2566

Third Sunday

W5YI VEC

3-5 p.m. Lawrenceville Masonic Lodge 465 S. Perry St. Lawrenceville, GA 30044 (770) 963-5721

(cont. next column)

Ham exam results for December 2010

There were no exams in the month of December 2010

For the year 2010, we had administered 36 ham exams at the Lawrenceville Lodge building. Out of 36 exams administered, 30 passed and had earned a new license or upgrade as follows:

Technician = 16 General = 8 Extra = 6

Special thanks to all the VE's that make these exam sessions possible. The next Ham Exam Session will be at the GARS Tech Fest on Saturday, January 8 followed by the regular Ham Exam Session on Sunday, January 16.

Fourth Tuesday

ARRL VEC 7 p.m. United Way Service Center 6279 Fairburn Rd. Douglasville

Fourth Sunday

2:30 p.m. Georgia Tech VanLeer Elec. Building Rm. W218 77 Atlantic Dr. See www.w4aql.com Alexander G. Carver (404) 894-2936 acarver@ece.gatech.edu

Metro Club Meetings

First Tuesday

Kennehoochee ARC Southern Polytechnic State University Meeting begins at 7:30 PM Talk In 146.880(-)

First Thursday

Atlanta Radio Club Georgia Red Cross HQ 1955 Monroe Dr., Atlanta Meeting is at 7:30 PM Talk In -146.820(-) N.E. Georgia ARC Commerce Public Library Meeting is at 6:30 PM Talk In - 147.225(+) PL 123.0

Second Monday

Georgia Tech ARC Room W218 Van Leer Electrical Engineering Bldg. Georgia Tech Campus Meeting at 7:00 PM

Second Thursday

Alford Memorial Radio Club Annistown Road Baptist Church Intersection of Annistown Rd & Spain Rd Stone Mountain Dinner at 6:00 PM Meeting at 7:30 PM Talk In - 146.760(-)

Second Saturday

North GA QRP Club Wieuca Baptist Church on Peachtree Rd/Wieuca, at 10:00 AM

Third Tuesday

North Fulton Amateur Radio League Masonic Lodge 194 Milton Avenue Alpharetta, Georgia meeting at 7:30 PM Talk In - 145.47(-)

GARS

APPAREL ORDER FORM

NAME:	PHONE #	
CALL:		(To avoid errors, please PRINT legibly)
NAME TO BE EMBROIDERED:		
CALL SIGN TO BE EMBROIDERED:		

ITEM	SIZ E	QUANTITY	PRICE	TOTAL
T-SHIRT				
Red WITHOUT name & call			\$20.00	
White WITHOUT name & call			\$20.00	
Red WITH name & call			\$20.00	
White WITH name & call			\$20.00	
GOLF SHIRT WITHOUT name & call				
Red			\$24.00	
White			\$24.00	
GOLF SHIRT WITH name & call				
Red			\$28.00	
White			\$28.00	
SWEATSHIRT				
Red WITHOUT name & call			\$30.00	
White WITHOUT name & call			\$30.00	
Red WITH name & call			\$30.00	
White WITH name & call			\$30.00	
LIGHTWEIGHT JACKET RED ONLY				
WITHOUT name & call			\$31.00	
WITH name & call			\$35.00	
HEAVYWEIGHT JACKET RED ONLY				
WITHOUT name & call			\$41.00	
WITH name & call			\$45.00	
GARS BADGE WITH name & call			\$9.00	
HAT WITHOUT name & call				
Red			\$9.00	
White			\$9.00	
HAT WITH name & call				
Red			\$16.00	
White			\$16.00	

TOTAL ORDER PRICE:

Please attach your check made payable to GARS and return to Ralph Pickwick, KJ4CNC or mail to:

GARS

P.O. Box 88

Lilburn, Georgia 30048

NOTE: Please allow at least 4 weeks for delivery of items. Some items may need to be special ordered.

Thanks and 73s! -- Ralph KJ4CNC

GWINNETT AMATEUR RADIO SOCIETY

P.O. BOX 88 LILBURN, GA 30048

MEMBERSHIP APPLICATION

☐ NEW MEMBER ☐ RENEWAL Name: Call Sign: Address: City: State: Zip: Email: Home Phone: Cell Phone: Work Phone: / (mm/dd/yyyy) ARRL Member (circle one): Date of Birth: Yes No Life Interests: Type of Membership Optional Contributions ■ Individual \$30.00 annually Repeater Fund: ☐ Student \$15.00 annually □ Senior \$15.00 annually (over age 65) Scholarship Fund: \$ ☐ Family ** \$35.00 annually ** Available for family members residing at the same address Additional Family Members ** Name: Call Sign: / / (mm/dd/yyyy) ARRL Member (circle one): Date of Birth: Yes No Life Name: Call Sign: /____(mm/dd/yyyy) ARRL Member (circle one): Date of Birth: Yes No Life I agree to abide by the By-Laws of the Gwinnett Amateur Radio Society and understand that membership is subject to the approval of the Club. Applicant's Signature: Date: / / FOR OFFICIAL USE ONLY: ___/__/___ App Received: Amount Received: \$_____ □ Cash _ Check #: ______ Member Approved: ____/____ Recorded In Membership Database _/__/___ Old Exp Date: New Exp Date: ____/____



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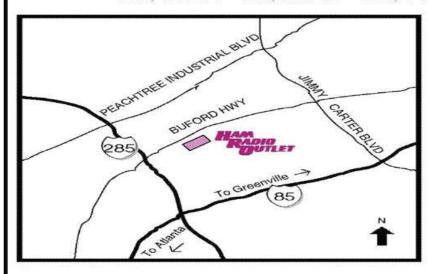
Mark Holmes Manager KJ4VO 6071 Buford Highway

Atlanta, GA 30340 (Doraville) 770-263-0700 1-800-444-7927

Fax: 770-263-9548

e-mail: atlanta@hamradio.com hours: 10 a.m. - 5:30 p.m. Mon.-Sat.

John, KI4LMA Bill, W5RQR David, AI4XL Tom, KB4HQA Dale, W4GCL Jim, N1ABM Josh, W4JDH Brian, WD4DX



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Yaesu KLM
Alpha Delta KLM
Larsen
M2
Butternut Valor
Create Van Gorden

Kenwood
Tarheel
Heil
West Mountain

Vali Corde

MFJ
Ameritron
Comet